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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/764,487 01/18/2001 Tomoyuki Ishii 500.39521X00 6176 20457 7590 12/16/2003 **EXAMINER** ANTONELLI, TERRY, STOUT & KRAUS, LLP TRAN, ANDREW Q 1300 NORTH SEVENTEENTH STREET ART UNIT PAPER NUMBER **SUITE 1800** ARLINGTON, VA 22209-9889

2824

DATE MAILED: 12/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.		Applicant(s)			
		09/764,487		TOMOYUKI ISHII			
		Examiner		Art Unit			
			Andrew Q Tran	4 *41 44	2824		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ Resp	onsive to communication(s) file	ed on <u>20 Oo</u>	ctober 2003.				
2a)☐ This	s action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-7 is/are pending in the application.							
4a) O	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∐ Clain	5) Claim(s) is/are allowed.						
6)⊠ Clain)⊠ Claim(s) <u>1-3 and 6</u> is/are rejected.						
•	Claim(s) <u>4,5 and 7</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) \square The drawing(s) filed on <u>20 October 2003</u> is/are: a) \square accepted or b) \square objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 							
* See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment(s)							
1) Notice of Re 2) Notice of Dr	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (F Disclosure Statement(s) (PTO-1449) F		5) Notice	of Informal P	(PTO-413) Paper No(s) atent Application (PTO-15 y.		

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The Amendment filed October 20, 2003 has been received and placed of record.

The indicated allowability of claims 1-7 is withdrawn in view of the newly discovered reference(s) to Leedy (US 6,632,706 hereafter referred to as Leedy). Rejections based on the newly cited reference(s) follow.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Leedy. See for example Figs. 1a-1c.

As to claim 1, Leedy discloses a stacked integrated circuit memory device 100 comprising a control circuitry 101 (including array of sense amplifiers, see col. 2, ln. 1-4); and a plurality of memory array layers 103 (of a different type from the array of

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sense amplifiers 101) disposed on top of the array of sense amplifiers.

As to claim 2, the bond and interconnect layers 105a-105c are preferably made of metal (see col. 4, ln. 17-20).

As to claim 3, data signal is transferred between the array of sense amplifiers 101 and the memory array layers 103 during read and write, for example.

As to claim 6, the array of sense amplifiers 101 functions to sense data from the memory array layers 103.

Claims 4-5 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission via the Fax Center. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (October 19, 1988). The Fax Center number is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Q.

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Tran whose telephone number is (571) 272-1885. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms, can be reached on (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Andrew Q. Tran December 13, 2003

ANDREW Q.TRAN
PRIMARY EXAMINER